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=> s angiogenesis

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=> s kininogen

L3 6722 KININOGEN

=> s 13 and 12

L4 57 L3 AND L2

=> s 14 and composition

L5 30 L4 AND COMPOSITION

=> s 15 and N-terminal protective group

L6 0 L5 AND N-TERMINAL PROTECTIVE GROUP

=> s protective group

L7 9211 PROTECTIVE GROUP

=> s 17 and N-terminal

L8 835 L7 AND N-TERMINAL

=> s 18 and c-terminal

L9 598 L8 AND C-TERMINAL

0 L9 AND L5 L10

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ANSWER 1 OF 30 USPATFULL L5

Compositions and methods for inhibiting endothelial cell proliferation ΤI

and regulating angiogenesis using cancer markers

Compositions and methods for regulating angiogenic activity wherein the ΑB compositions comprise cancer markers including kallikreins such as prostate-specific antigen (PSA), serine protease homologs, or active fragments thereof are provided. Serine proteases and kallikreins

exhibit

potent antiangiogenic activity on human and other animal cells, particularly endothelial cells. More particularly, PSA, PSA homologs, and inhibitory fragments thereof may be combined with a

pharmaceutically

acceptable excipient or carrier and used to inhibit angiogenesis and angiogenesis-related diseases such as cancer, arthritis, macular degeneration, and diabetic retinopathy.

ACCESSION NUMBER: 2002:160355 USPATFULL

Compositions and methods for inhibiting endothelial TITLE:

cell proliferation and regulating angiogenesis

using cancer markers

Holaday, John W., Bethesda, MD, United States INVENTOR(S):

Fortier, Anne H., Rockville, MD, United States

Entremed, Inc., Rockville, MD, United States (U.S. PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE _____ US 6413513 B1 20020702 US 1999-413049 19991006 (9) PATENT INFORMATION:

APPLICATION INFO.:

Continuation-in-part of Ser. No. US 1999-316802, filed RELATED APPLN. INFO.:

on 21 May 1999

NUMBER DATE -----

PRIORITY INFORMATION:

US 1998-86586P 19980522 (60)

DOCUMENT TYPE: Utility GRANTED FILE SEGMENT:

Eyler, Yvonne PRIMARY EXAMINER: Andres, Janet L. ASSISTANT EXAMINER:

LEGAL REPRESENTATIVE: Kilpatrick Stockton LLP

NUMBER OF CLAIMS: 6 EXEMPLARY CLAIM: 1,4

NUMBER OF DRAWINGS: 12 Drawing Figure(s); 7 Drawing Page(s)

LINE COUNT: 1926

L5 ANSWER 2 OF 30 USPATFULL

TI Interventions to mimic the effects of calorie restriction

Long term calorie restriction has the benefit of increasing life span. AB Methods to screen interventions that mimic the effects of calorie restriction are disclosed. Extensive analysis of genes for which expression is statistically different between control and calorie restricted animals has demonstrated that specific genes are preferentially expressed during calorie restriction. Screening for interventions which produce the same expression profile will provide interventions that increase life span. In a further aspect, it has been discovered that test animals on a calorie restricted diet for a

relatively shortetime have a similar gene express n profile to test animals which has been on a long term calorie restricted diet.

2002:144075 USPATFULL ACCESSION NUMBER:

Interventions to mimic the effects of calorie TITLE:

restriction

Spindler, Stephen R., Riverside, CA, United States INVENTOR(S): The Regents of the University of California, Oakland, PATENT ASSIGNEE(S):

CA, United States (U.S. corporation)

NUMBER KIND DATE ___________

PATENT INFORMATION:

US 6406853 B1 20020618 US 2000-648642 20000825 (9) APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1999-471225, filed

on 23 Dec 1999

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

Jones, W. Gary PRIMARY EXAMINER: ASSISTANT EXAMINER: Taylor, Janell E.

LEGAL REPRESENTATIVE: Townsend & Townsend & Crew LLP

NUMBER OF CLAIMS: 26 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 13 Drawing Figure(s); 13 Drawing Page(s)

LINE COUNT: 2230

ANSWER 3 OF 30 USPATFULL

Cancer treatment methods using antibodies to aminophospholipids TI

Disclosed are the surprising discoveries that aminophospholipids, such AΒ as phosphatidylserine and phosphatidylethanolamine, are stable and specific markers accessible on the luminal surface of tumor blood vessels, and that the administration of an anti-aminophospholipid antibody alone is sufficient to induce thrombosis, tumor necrosis and tumor regression in vivo. This invention therefore provides

anti-aminophospholipid antibody-based methods and compositions for use in the specific destruction of tumor blood vessels and in the treatment of solid tumors. Although various antibody conjugates and combinations are thus provided, the use of naked, or unconjugated,

anti-phosphatidylserine antibodies is a particularly important aspect

of

the invention, due to simplicity and effectiveness of the approach.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:143940 USPATFULL

TITLE: Cancer treatment methods using antibodies to

aminophospholipids

INVENTOR(S): Thorpe, Philip E., Dallas, TX, United States

Ran, Sophia, Dallas, TX, United States

PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,

Austin, TX, United States (U.S. corporation)

NUMBER KIND DATE

US 6406693 B1 20020618 US 1999-351543 19990712 PATENT INFORMATION: APPLICATION INFO.: 19990712 (9)

NUMBER DATE

US 1998-110608P 19981202 (60) US 1998-92672P 19980713 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility GRANTED FILE SEGMENT:

PRIMARY EXAMINER: Bansal, Geetha P.

LEGAL REPRESENTATIVE: Williams, Morgan and Amerson

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

6 Drawing Figure(s); 3 Drawing Page(s) NUMBER OF DRAWINGS:

7541 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER.4 OF 30 USPATFULL

ΤI Nucleic acids, proteins, and antibodies

The present invention relates to novel liver related polynucleotides AΒ and

the polypeptides encoded by these polynucleotides herein collectively known as "liver antigens," and the use of such liver antigens for detecting disorders of the liver, particularly the presence of cancer

οf

liver and cancer metastases. More specifically, isolated liver associated nucleic acid molecules are provided encoding novel liver associated polypeptides. Novel liver polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors,

host

cells, and recombinant and synthetic methods for producing human liver associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the liver, including cancer of liver tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and

polypeptides

of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:78442 USPATFULL

Nucleic acids, proteins, and antibodies TITLE:

Rosen, Craig A., Laytonsville, MD, UNITED STATES INVENTOR(S):

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES

NUMBER KIND DATE _____ US 2002042096 A1 US 2001-764887 A1 PATENT INFORMATION: 20020411 20010117 (9) APPLICATION INFO.: DATE NUMBER US 2000-179065P 20000131 (60)
US 2000-180628P 20000204 (60)
US 2000-214886P 20000628 (60)
US 2000-217487P 20000711 (60)
US 2000-225758P 20000814 (60)
US 2000-220963P 20000726 (60)
US 2000-217496P 20000711 (60) PRIORITY INFORMATION: US 2000-217496P 20000711 (60) US 2000-225447P 20000814 (60) 20000714 (60) US 2000-218290P US 2000-225757P 20000814 (60) 20000822 (60) US 2000-226868P US 2000-216647P 20000707 (60) 20000814 (60) US 2000-225267P 20000707 (60) US 2000-216880P US 2000-225270P 20000814 (60) 20001208 (60) US 2000-251869P 20000927 (60) US 2000-235834P US 2000-234274P 20000921 (60) US 2000-234223P 20000921 (60)

S 2000-224518P 20000814 (60) US 2000-236369P 20000929 (60) 20000814 (60) US 2000-224519P US 2000-220964P 20000726 (60) 20001020 (60) US 2000-241809P US 2000-249299P 20001117 (60) 20000929 (60) US 2000-236327P US 2000-241785P 20001020 (60) US 2000-244617P 20001101 (60) US 2000-225268P 20000814 (60) US 2000-236368P 20000929 (60) US 2000-251856P 20001208 (60) US 2000-251868P 20001208 (60) US 2000-229344P 20000901 (60) US 2000-234997P 20000925 (60) US 2000-229343P 20000901 (60) US 2000-229345P 20000901 (60) 20000901 (60) US 2000-229287P US 2000-229513P 20000905 (60) US 2000-231413P 20000908 (60) 20000905 (60) US 2000-229509P US 2000-236367P 20000929 (60) US 2000-237039P 20001002 (60) US 2000-237038P 20001002 (60) US 2000-236370P 20000929 (60) 20001002 (60) US 2000-236802P 20001002 (60) US 2000-237037P 20001002 (60) US 2000-237040P 20001020 (60) US 2000-240960P US 2000-239935P 20001013 (60)

20000830 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

IS 2000-228924P

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 19583

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 30 USPATFULL

TI Methods comprising apoptosis inhibitors for the generation of transgenic

pigs

to

Disclosed are methods for the isolation of primordial germ cells, culturing these cells to produce primordial germ cell-derived cell lines, methods for transforming both the primordial germ cells and the cultured cell lines, and using these transformed cells and cell lines

generate transgenic animals. The efficiency at which transgenic animals are generated by the present invention is greatly increased, thereby allowing the use of homologous recombination in producing transgenic non-rodent animal species.

ACCESSION NUMBER: 2002:75643 USPATFULL

TITLE: Methods comprising apoptosis inhibitors for the

generation of transgenic pigs

INVENTOR(S): Piedrahita, Jorge A., College Station, TX, United

States

Bazer, Fuller W., College Station, TX, United States

PATENT ASSIGNEE(S): Texas A&M University System, College Station, TX,

United States (U.S. corporation)

NUMBER KIND DATE

S 6369294 B1 20020409 US 2002045253 A1 20020418 US 2001-819964 20010328 PATENT INFORMATION:

APPLICATION INFO .: (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1997-949155, filed on 10

Oct 1997, now patented, Pat. No. US 6271436

NUMBER DATE _____

PRIORITY INFORMATION: US 1997-46094P 19970509 (60) US 1996-27338P 19961011 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Crouch, Deborah
ASSISTANT EXAMINER: Pappu, Sita

LEGAL REPRESENTATIVE: Bracewell & Patterson L.L.P.

NUMBER OF CLAIMS: 58 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)

LINE COUNT:

ANSWER 6 OF 30 USPATFULL

Inhibitors of platelet activation and recruitment ΤI

The present invention provides soluble CD39 polypeptides and AB compositions, and methods for inhibiting platelet activation and recruitment in a mammal comprising administering a soluble CD39 polypeptide.

CAS INDEXING IS AVAILABLE FOR THIS PATENT. ACCESSION NUMBER: 2002:4297 USPATFULL

Inhibitors of platelet activation and recruitment TITLE: Maliszewski, Charles Richard, Seattle, WA, UNITED INVENTOR(S):

STATES

Gayle, Richard Brownley, III, Woodinville, WA, UNITED

STATES

Price, Virginia Lee, Seattle, WA, UNITED STATES Gimpel, Steven Dean, Seattle, WA, UNITED STATES

NUMBER KIND DATE _____ US 2002002277 A1 20020103 US 2001-835147 A1 20010413 (9)

PATENT INFORMATION: APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 1999-US22955,

filed

on 13 Oct 1999, UNKNOWN

NUMBER DATE ______ US 1998-104585P 19981016 (60) US 1998-107466P 19981106 (60) US 1999-149010P 19990813 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

IMMUNEX CORPORATION, LAW DEPARTMENT, 51 UNIVERSITY LEGAL REPRESENTATIVE:

STREET, SEATTLE, WA, 98101

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 24 Drawing Page(s) LINE COUNT: 4075

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 7 OF 30 USPATFULL

ΤI Cancer treatment methods using therapeutic conjugates that bind to

aminophospholipids

Disclosed is the apprising discovery that aminophable holipids, such as phosphatidylserin and phosphatidylethanolaminie, are specific, AB accessible and stable markers of the luminal surface of tumor blood vessels. The present invention thus provides aminophospholipid-targeted diagnostic and therapeutic constructs for use in tumor intervention. Antibody-therapeutic agent conjugates and constructs that bind to aminophospholipids are particularly provided, as are methods of specifically delivering therapeutic agents, including toxins and coagulants, to the stably-expressed aminophospholipids of tumor blood vessels, thereby inducing thrombosis, necrosis and tumor regression.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2001:196603 USPATFULL ACCESSION NUMBER:

TITLE: Cancer treatment methods using therapeutic conjugates

that bind to aminophospholipids

Thorpe, Philip E., Dallas, TX, United States INVENTOR(S):

Ran, Sophia, Dallas, TX, United States

PATENT ASSIGNEE (S): Board of Regents, The University of Texas System,

Austin, TX, United States (U.S. corporation)

NUMBER KIND DATE -----US 6312694 B1 20011106 US 1999-351457 19990712 PATENT INFORMATION: 19990712 (9) APPLICATION INFO.:

> NUMBER DATE ______

US 1998-92589P 19980713 (60) US 1998-110600P 19981202 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility GRANTED FILE SEGMENT:

PRIMARY EXAMINER: Bansal, Geetha P.

LEGAL REPRESENTATIVE: Williams, Morgan & Amerson

NUMBER OF CLAIMS: 50 1,2,3,4 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 6 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT: 8243

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 8 OF 30 USPATFULL

Xrcc3 is required for assembly of Rad51-complexes in vivo TΙ

The present invention relates to the interaction of Rad51 and Xrcc3 to AB form a complex that mediates DNA repair in eukaryotic cells. A functional Rad51/Xrcc3 complex can be introduced into a cell to

increase

the resistance of the cell to DNA damaging agents. The invention also provides for a clinical application of a regimen combining Rad51 and Xrcc3 to reduce the side effects of radiotherapy and chemotherapy in a patient. In addition, the invention discloses methods for identifying candidate substances that interact with the Rad51/Xrcc3 complex. In another embodiment of the invention, preventing the formation of the Rad51/Xrcc3 complex increases the susceptibility of a cell to DNA damaging agents. This strategy can be used in combination with a DNA damaging agent or factor to kill cancerous cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:194414 USPATFULL

TITLE: Xrcc3 is required for assembly of Rad51-complexes in

vivo

INVENTOR(S): Weichselbaum, Ralph R., Chicago, IL, United States

Bishop, Douglas K., Chicago, IL, United States

PATENT ASSIGNEE(S): ARCH Development Corporation. (U.S. corporation)

> NUMBER KIND DATE

S 2001036929 A1 20011101 US 2001-844538 A1 20010426 (9) PATENT INFORMATION: APPLICATION INFO .:

Division of Ser. No. US 1999-404053, filed on 22 Sep RELATED APPLN. INFO.:

----- -----

1999, PENDING

NUMBER DATE _____

US 1998-101909P 19980925 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility

APPLICATION FILE SEGMENT:

Steven L. Highlander, Esq., FULBRIGHT & JAWORSKI LEGAL REPRESENTATIVE:

L.L.P., Suite 2400, 600 Congress Avenue, Austin, TX,

78701

NUMBER OF CLAIMS: 69 EXEMPLARY CLAIM: 1

4 Drawing Page(s) NUMBER OF DRAWINGS:

3206 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 9 OF 30 USPATFULL

Inhibition of angiogenesis by peptide analogs of TI

high molecular weight kininogen domain 5

Peptide analogs of the high molecular weight kininogen domain AB 5 are potent inhibitors of angiogenesis. The peptides have the

formula

X.sub.1 - (HGLGHGHEQQHGKGH)-X.sub.2 (I)

wherein

X.sub.1 is from zero to 25 amino acids;

X.sub.2 is from zero to 60 amino acids.

Methods of inhibiting endothelial cell proliferation and angiogenesis are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2001:147934 USPATFULL

TITLE:

Inhibition of angiogenesis by

peptide analogs of high molecular weight

kininogen domain 5

INVENTOR(S): Colman, Robert W., Media, PA, United States

Mousa, Shaker A., New London, PA, United States

PATENT ASSIGNEE(S):

Temple University - Of The Commonwealth System of Higher Education, Philadelphia, PA, United States

(U.S.

corporation)

Du Pont Pharmaceuticals Company, Wilmington, DE,

United

States (U.S. corporation)

NUMBER KIND DATE ----- -----US 6284726 B1 20010904 US 2000-612126 20000707 PATENT INFORMATION:

APPLICATION INFO.: RELATED APPLN. INFO.:

20000707 (9) Continuation of Ser. No. WO 1999-US26377, filed on 9

Nov 1999

NUMBER DATE

PRIORITY INFORMATION:

US 1998-107844P 19981110 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT: FRANTED

arlson, Karen Cochrane PRIMARY EXAMINER: ASSISTANT EXAMINER: Robinson, Patricia

LEGAL REPRESENTATIVE: Drinker Biddle & Reath LLP

NUMBER OF CLAIMS: 25 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 4 Drawing Figure(s); 1 Drawing Page(s)

801 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 10 OF 30 USPATFULL

Cells and methods for the generation of transgenic pigs ΤI

Disclosed are methods for the isolation of primordial germ cells, AΒ culturing these cells to produce primordial germ cell-derived cell lines, methods for transforming both the primordial germ cells and the cultured cell lines, and using these transformed cells and cell lines

to

generate transgenic animals. The efficiency at which transgenic animals are generated by the present invention is greatly increased, thereby allowing the use of homologous recombination in producing transgenic non-rodent animal species.

2001:126193 USPATFULL ACCESSION NUMBER:

Cells and methods for the generation of transgenic TITLE:

pigs

Piedrahita, Jorge A., College Station, TX, United INVENTOR(S):

Bazer, Fuller W., College Station, TX, United States The Texas A & M University System, College Station,

PATENT ASSIGNEE(S): TX,

United States (U.S. corporation)

KIND DATE NUMBER _____ US 6271436 B1 20010807 US 1997-949155 19971010 PATENT INFORMATION: 19971010 (8) APPLICATION INFO.:

DATE NUMBER

______ US 1996-27338P 19961011 (60) US 1997-46094P 19970509 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility GRANTED FILE SEGMENT:

Martin, Jill D. PRIMARY EXAMINER:

LEGAL REPRESENTATIVE: Williams, Morgan & Amerson

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)

LINE COUNT: 8905

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